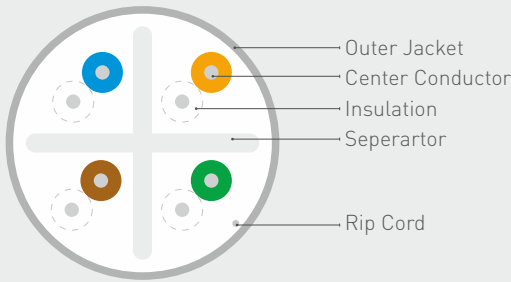
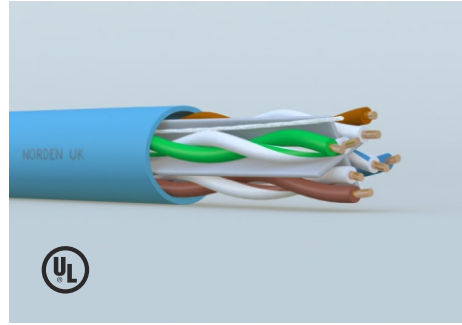


# CATEGORY 6 U/UTP 23 AWG 4 PAIR CABLE CM PVC

Norden Category 6 UTP cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m.

Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to UTP (Unshielded Twisted Pair) cabling systems.



## COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
ANSI/TIA-568.2-D Category 6  
ISO/IEC-11801, Class E / IEC 61156-5: Category 6.

## PRODUCT CLASSIFICATION

Product Sequence	E Series
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.02±0.03 mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Outer Jacket	PVC
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 6.3±0.4 mm

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## ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 $\Omega$ $\pm$ 15
DC Resistance	73 $\Omega$ /km nom.
Max. Resistance Unbalance	4 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	35 ns/100m max.
Velocity of Propagation	69 %
Min. Insulation Resistance	5 G $\Omega$ •km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	53.6 mm
Operating Temperature Range	-10°C to +75°C

## TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	1.9	87.6	82.6	28.0	85.0	80.0
4	3.5	79.2	74.2	30.0	73.0	68.0
10	5.6	73.3	68.3	29.0	65.0	60.2
20	8.4	69.1	63.8	29.0	59.0	54.0
100	18.9	58.0	53.0	25.1	45.0	40.1
150	24.0	55.2	50.7	23.8	41.8	36.9
200	26.1	53.0	48.0	22.8	39.0	33.8
250	30.0	52.6	47.6	22.0	37.8	32.8

\*Supplied cables meets Cat. 6 min. transmission requirements as per IEC 61156-5 Ed. 2

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-46001104X	Category 6 U/UTP 23 AWG 4 Pair Cable CM PVC	305 mtr

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)

## PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
113-46001104X	Pulley Box	12.0	13.0	400 x 400 x 220